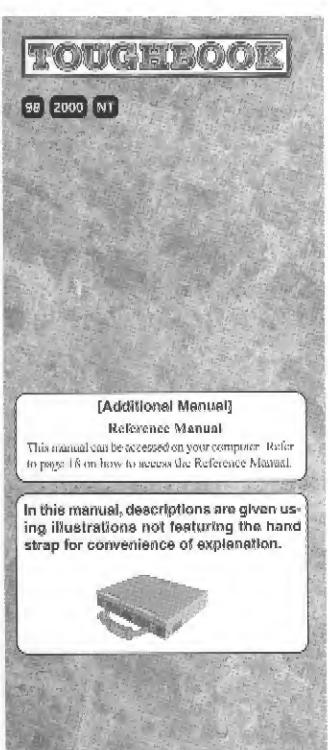


Panasonic.

Personal Computer

OPERATING INSTRUCTIONS

Model No. CF-M34 Series



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Model No. ⁻¹	Dealer's Name	
Serial No.		
or		
Code No.	Dealer's Address	
Product Key '2		
Date of Purchase		

- *1 For the Model No., insert the 12 digit number (for example, CF-M34NPFZPM) located on the bottom of the computer.
- *2 For Product Key, write down the Product Key shown on the "Certificate of Authenticity" located on the bottom of the computer.

Introduction

Thank you for purchasing the Panasonic computer. Read the operating instructions thoroughly for proper operation of your new computer.

Illustrations in this Manual

NOTE: **NOTE** provides a useful fact or helpful information.

CAUTION: CAUTION indicates a condition that may result in minor or moderate injury.

WARNING: WARNING indicates a hazard that may result in moderate or serious injury.

[Start]-[Shut Down]: This illustration means to click [Start], then to click [Shut Down].

(For some applications, you may need to double-click.)

(Enter): This illustration means to press the [Enter] key.

Fn + **F5**: This illustration means to press and hold the [Fn] key, then press the [F5] key.

(Windows 98): Information for Microsoft* Windows 98 Second Edition users.

(Windows 2000): Information for Microsoft* Windows 2000 Professional users.

(Windows NT® Workstation Version 4.0 users.

(F: Where to go for referred information.

This illustration means to refer to the Reference Manual, which is available on your computer.

Refer to page 18 on how to access this manual.

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Read Me First

For U.S.A.

Federal Communications Commission Radio Frequency Interference Statement

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the Panasonic Service Center or an experienced radio/TV technician for help.

Warning

To assure continued compliance, use only shielded interface cables when connecting to a computer or peripheral. Also, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

FCC RF Exposure Warning: This computer is provided with PC Card slots that could be used with wireless transmitter(s), which will be specifically recommended, when they become available. Other third-party wireless transmitter(s) have not been RF exposure evaluated for use with this computer and may not comply with FCC RF exposure requirements.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Responsible Party: Matsushita Electric Corporation of America One Panasonic Way Secaucus, NJ 07094

Tel No:1-800-LAPTOP-5 (1-800-527-8675)

FCC Regulation Notice for modem This equipment contains a FCC approved modem.

Manufacturer of modem: AMBIT Microsystems Corporation Model No. T60.071.C.00

Tested To Comply
With FCC Standards
FOR HOME OR OFFICE USE

1. This equipment complies with Part 68 of the FCC rules. On the computer is a label that contains, among other information, the FCC registration number and ringer equivalence number (REN) for this equipment. If required, this information must be provided to the telephone company.

- 2. An FCC compliant telephone cord and modular plug is provided with this equipment. This equipment is designed to be connected to the telephone network or premises wiring using a compatible modular jack which is Part 68 compliant. See Installation Instructions for details.
- 3. The REN is used to determine the quantity of devices which may be connected to the telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all area, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company.
- 4. If your telephone equipment cause harm to the telephone network, the telephone company will notify you in advice that temporary discontinuance of service may be required. But if advice notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.
- 5. The telephone company may take changes in it's facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.
- 6. If trouble is experienced with this equipment, for repair or warranty information, please contact Matsushita Electric Corporation of America at DIAL TOLL FREE 1-800-LAPTOP5 (1-800-527-8675). If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.
- 7. There are no user serviceable parts contained in this equipment.
- This equipment may not be used on coin service provided by the telephone company. Connection to party lines is subject to state tariffs.
- 9. The Telephone Consumer Protection Act of 1991 makes it unlawful for any person to use a computer or other electronic device to send any message via a telephone fax machine unless such message clearly contains in a margin at the top or bottom of each transmitted page or on the first page of the transmission, the date and time it is sent and an identification of the business or other entry, or other individual sending the message and the telephone number of the sending machine or such business, other entity, or individual. In order to program this information into your fax software, you should refer to the manual of the Fax software being used.
- 10.According to the FCC's electrical safety advisory, we recommend that you may install an AC surge arrestor in the AC outlet to which this equipment is connected. Telephone companies report that electrical surges, typically lightning transients, are very destructive to customer terminal equipment connected to AC power sources and that this is a major nationwide problem.

"Caution: To reduce the risk of fire, use only No.26 AWG or larger telecommunication line cord."

"ATTENTION: Pour réduire le risque d'incendie, utiliser uniquement des conducteurs de télécommunications 26 AWG ou de section supérieure."

Notice for the products using LCD

This product uses one or more fluorescent lamps containing a small amount of mercury. It also contains lead in some components. Disposal of these materials may be regulated in your community due to environmental considerations. For disposal or recycling information please contact your local authorities, or the Electronics Industries Alliance: http://www.eiae.org/

Read Me First

For Canada

Industry Canada (IC) Notice for modem

This equipment contains an Industry Canada approved modem unit. The Industry Canada label is affixed on the modem unit.

EQUIPMENT ATTACHMENT LIMITATIONS

"NOTICE: The Industry Canada label identifies certified equipment. This certification means that the equipment meets telecommunications network protective, operational and safety requirements as prescribed in the appropriate Terminal Equipment Technical Requirements document(s). The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be coordinated by a representative designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas. Caution: Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate."

"NOTICE: The Ringer Equivalence Number (REN) assigned to each terminal device provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the

requirement that the sum of the Ringer Equivalence Numbers

of all the devices does not exceed 5."

REN: See bottom of the computer

RESTRICTIONS CONCERNANT LE RACCORDEMENT DE MATÉRIEL

"AVIS: L'étiquette d'Industrie Canada identifie le matériel homologué. Cette étiquette certifie que le matériel est conforme aux normes de protection, d'exploitation et de sécurité des réseaux de télécommunications, comme le prescrivent les documents concernant les exigences techniques relatives au matériel terminal. Le Ministère n'assure toutefois pas que le matériel fonctionnera à la satisfaction de l'utilisateur.

Avant d'installer ce matériel, l'utilisateur doit s'assurer qu'il est permis de le raccorder aux installations de l'entreprise locale de télécommunication. Le matériel doit également être installé en suivant une méthode acceptée de raccordement. L'abonné ne doit pas oublier qu'il est possible que la conformité aux conditions énoncées ci-dessus n'empêche pas la dégradation du service dans certaines situations.

Les réparations de matériel homologué doivent être coordonnées par un représentant désigné par le fournisseur. L'entreprise de télécommunications peut demander à l'utilisateur de débrancher un appareil à la suite de réparations ou de modifications effectuées par l'utilisateur ou à cause de mauvais fonctionnement.

Pour sa propre protection, l'utilisateur doit s'assurer que tous les fils de mise à la terre de la source d'énergie électrique, des lignes téléphoniques et des canalisations d'eau métalliques, s'il y en a, sont raccordés ensemble. Cette précaution est particulièrement importante dans les régions rurales. Avertissement: L'utilisateur ne doit pas tenter de faire ces raccordements lui-même; il doit avoir recours à un service d'inspection des installations électriques, ou à un électricien, selon le cas."

"AVIS: L'indice d'équivalence de la sonnerie (IES) assigné à chaque dispositif terminal indique le nombre maximal de terminaux qui peuvent être raccordés à une interface. La terminaison d'une interface téléphonique peut consister en une combinaison de quelques dispositifs, à la seule condition que la somme d'indices d'équivalence de la sonnerie de touts les dispositifs n'excède pas 5."

IES: Voir sous le fond de l'ordinateur

Important Safety Instructions / Importantes Mesures De Sécurité

When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons, including the following:

- 1. Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool.
- Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
- Do not use the telephone to report a gas leak in the vicinity of the leak.
- 4. Use only the power cord and batteries indicated in this manual. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.

Certaines mesures de sécurité doivent être prises pendant l'utilisation de matérial téléphonique afin de réduire les risques d'incendie, de choc électrique et de blessures. En voici quelquesunes:

- 1. Ne pas utiliser l'appareil près de l'eau, p.ex., près d'une baignoire, d'un lavabo, d'un évier de cuisine, d'un bac à laver, dans un sous-sol humide ou près d'une piscine.
- 2. Éviter d'utiliser le téléphone (sauf s'il s'agit d'un appareil sans fil) pendant un orage électrique. Ceci peut présenter un risque de choc électrique causé par la foudre.
- 3. Ne pas utiliser l'appareil téléphonique pour signaler une fuite de gaz s'il est situé près de la fuite.
- 4. Utiliser seulement le cordon d'alimentation et le type de piles indiqués dans ce manual. Ne pas jeter les piles dans le feu: elles peuvent exploser. Se conformer aux règlements pertinents quant à l'élimination des piles.

CONSERVER CES INSTRUCTIONS

Lithium Battery

Lithium Battery!

This computer contains a lithium battery to enable the date, time, and other data to be stored. The battery should only be exchanged by authorized service personnel.

Warning! A risk of explosion from incorrect installation or misapplication may possibly occur.

Pile au lithium!

Le micro-ordinateur renferme une pile au lithium qui permet de sauvegarder certaines données comme la date et l'heure notamment. Elle ne devra être remplacée que par un technicien qualifié.

Avertissement! Risque d'explosion en cas de non respect de cette mise en garde!

Precautions

The CF-M34 was developed based on thorough research into the real-world portable computing environments. Exhaustive pursuit of usability and reliability under harsh conditions led to innovations such has the magnesium alloy exterior, vibration damped hard disk drive and floppy disk drive, flexible internal connections. The CF-M34's outstanding engineering has been tested using the stiff MIL-STD- 810E (for vibration and shock) and IP (for dust and water) based procedures.

As with any portable computer device precautions should be taken to avoid any damage. The following usage and handling procedures are recommended.

Before putting the computer away, be sure to wipe off any moisture.



Avoid Radio Frequency Interference

Do not place the computer near a television or radio receiver.



Avoid Magnetic Fields

Keep the computer away from magnets. Data stored on the hard disk may be lost.



Keep Small Objects Away

Do not insert paper clips or other small objects into the computer.



Do Not Disassemble the Computer

Do not attempt to disassemble your computer.



Avoid Excessive Force on the Display

Do not apply excessive downward force on the display when it is completely opened, especially when plugs and/or cables are connected to the rear of the computer.



Avoid low-temperature burns

Avoid more than casual contact with any heat producing area of the notebook computer, power adapter, and any option or accessory you use with it. Even low heat, if warmer than body temperature, can cause a burn, if the skin is exposed to the heat source for a long enough period of time.

Peripherals

Incorrectly using peripheral devices may lead to a decrease in performance, an increase in temperature and/or damage your computer. For more information on peripheral devices, refer to the Reference Manual.

Cables

Use of an interface cable longer than 3 m (9.84 feet) is not recommended

Read Me First

Precautions (Battery Pack)

 Care should be exercised with regard to the following in order to avoid the possibility of overheating, fire or damage.



Avoid Heat

Do not throw the battery pack into a fire or expose it to excessive heat.



Keep Articles Away

Do not place the battery pack together with articles such as necklaces or hairpins when carrying or storing.



Do Not Disassemble

Do not insert sharp objects into the battery pack, expose it to bumps or shocks, deform, disassemble, or modify it.



Do Not Short

Do not short the positive (+) and negative (-) contacts.



Avoid Extreme Heat, Cold and Direct Sunlight

Do not charge, use or leave the battery pack for extended periods where it will be exposed to direct sunlight, in a hot place (in an automobile on a sunny day, for example), or in a cold place.



Do Not Use With Any Other Computer

The battery pack is rechargeable and was intended for the specified computer or charger. Do not use it with a computer other than the one for which it was designed.



Do Not Put into a Microwave

Do not put the battery pack into a microwave oven or a pressurized chamber.



Discontinue Use

Should the battery emit an abnormal odor, become hot to the touch, become discolored, change shape, or become in any way different from normal, remove it from the computer or charger and discontinue use.

- Do not touch the terminals on the battery pack. The battery pack may no longer function properly if the contacts are dirty or damaged.
- Do not expose the battery pack to water, or allow it to become wet.

- If the battery pack will not be used for a long period of time (a month or more), charge or discharge (use) the battery pack until the remaining battery level becomes 30% to 40% and store it in a cool, dry place.
- This computer prevents overcharging of the battery by recharging only when the remaining power is less than approx.
 95% of capacity.
- The battery pack is not charged when the computer is first purchased. Be sure to charge it before using it for the first time. When the AC adapter is connected to the computer, charging begins automatically.
- Should the battery leak and the fluid get into your eyes, do not rub your eyes. Immediately flush your eyes with clear water and see a doctor for medical treatment as soon as possible.

NOTE

- The battery pack may become warm during recharging or normal use. This is completely normal.
- Recharging will not commence outside of the allowable temperature range (0 °C to 50 °C {32°F to 122 °F}) Reference "Battery Power". Once the allowable range requirement is satisfied, charging begins automatically. Note that the recharging time varies based on the usage conditions. (Recharging takes longer than usual when the temperature is 10 °C {50 °F} or less.)
- If the temperature is low, the operating time is shortened. Only use the computer within the allowable temperature range.
- The battery pack is a consumable item. If the amount of time the computer can be run off a particular battery pack becomes dramatically shorter and repeated rechargings do not restore its performance, the battery pack should be replaced with a new one.
- When a spare battery pack is to be carried in a pocket or bag, it is recommended that it be placed in a plastic bag so that its contacts are protected.
- Always power off the computer when it is not in use.
 Leaving the computer on when the AC adapter is not connected will exhaust the remaining battery capacity.

Saving Data on the Hard Disk

• Do not expose your computer to shock.

Use care when handling your computer, shock may damage your hard disk or make your software applications and data unusable.

● Do not power down your computer while software applications are running or hard disk drive indicator (忌)

Properly shut Windows* down to avoid problems ([Start] - [Shut Down]).

Save all valuable data to disks.

Backing up data to disks will limit damage should trouble occur to your computer or should you inadvertently change or erase data.

• Use the security function for all important data. (Reference "Security Measures")

This computer uses Microsoft® Windows® 98 Second Edition.

This computer uses Microsoft® Windows NT®. (Windows NT):

(Windows 2000): This computer uses Microsoft® Windows® 2000 Professional.

⊢Hard-Disk-Lock¬

When the Hard Disk Lock is set to [Enable], it is impossible to read/write data from/to the hard disk when the hard disk is installed in a different computer, since a password is also set for the hard disk. When the hard disk is returned to the original computer, you can read/write data as before. In this case, however, make the settings in the Setup Utility exactly the same as they were before the hard disk was removed. (Note that this Hard Disk Lock does not guarantee the complete protection of data.) (Reference "Security Measures")

Saving Data on Disks

 Do not power off your computer or press the floppy disk drive eject button while the floppy disk drive being accessed.

Doing so may damage the data on the floppy disk and render the floppy disk useless.

Use care when handling floppy disks.

To protect the data on your floppy disks or to prevent a floppy disk from becoming stuck in your computer, avoid the following:

- Sliding the shutter on the floppy disk manually.
- Exposing the disk to a magnetic field.
- Storing the disk in locations prone to high temperatures, low pitched noise, dampness, or dust.
- Applying more than one label on the disk.
- Confirm the contents of a floppy disk before formatting it.

Confirm that no important data is on the floppy disk, because all data on the floppy disk will be erased.

 Use the write-protect tab. This is a must for preserving important data. This prevents your data from being erased or overwritten.



Write-protect Tab



Write Enable

Write Disable

Computer Viruses

- Users are advised to purchase the latest versions of virus protection software and use them regularly. We recommend you run the software:
 - · When booting your computer.
 - After receiving data.

We recommend that you check data received on disks or from external sources, such as data downloaded from the Internet, e-mail, etc. (For compressed files, uncompress them before running a check).

System File Checker Windows 98

Microsoft Corporation has announced that, with a computer in which Internet Explorer 5.01 is installed, if the [System File Checker] in [System Information] is executed, the following may occur.

- The message [System File Checker identified that the following file may be corrupted] may appear for a normal file.
- In such cases, there is the possibility that the system will become unstable if the file is repaired with the System File Checker.

In this computer, since Internet Explorer 5.01 is the default browser, do not use the System File Checker.

Read Me First

Usage Environment

Environment

Place the computer on a flat stable surface.

In use:

Temperature: 5 °C to 35 °C {41 °F to 95 °F}

Humidity: 30% to 80% RH (No condensation) Not in use: Temperature: -20 °C to 60 °C {-4 °F to 140 °F}

Humidity: 30% to 90% RH (No condensation)

Places not to use your computer

Such areas may result in damage to the computer.

Areas with electronic equipment

These areas may interfere with your display or cause your computer to produce strange sounds.

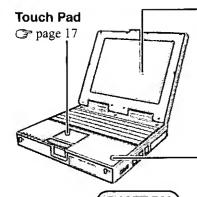
Areas with extremely high/low temperatures

Do not leave things near the computer that are sensitive to heat. During operation, the computer may become warm.

Handling

- This computer has been designed so as to minimize shock to the LCD and hard disk drive, etc., but no warranty is provided against such trouble. Therefore, as a precision instrument, be extremely careful in the handling.
- Do not drop or hit your computer against solid objects.
- Do not carry your computer when it is on.
- Remove all cables before transporting your computer.
- We recommend preparing a fully charged battery. When transporting spare batteries inside a package, briefcase, etc., it is recommended that
- the batteries be stored in a plastic bag. • Do not place the computer upright or allow it to tip over. When the computer receives extremely strong shock after falling, the hard disk or floppy disk drive, etc., may become
- inoperable.
- Do not carry the computer while the display is open, or carry it by gripping the display.
- Do not put anything (e.g., a piece of paper) between the display and keyboard. • Always carry your computer with you. Never check it in with luggage. For use of the
- computer inside an aircraft, we recommend asking the airlines regarding their policy on this
- It is a good idea to make backup copies on disks and carry them with you.
- Do not leave a disk in the drive while transporting your computer.

Maintenance



CAUTION

Avoid using water when cleaning the panel. Ingredients included in water may leave residue and reduce readability of the screen.

<When cleaning dust/dirt>

Avoid rubbing off dust/dirt with cloth since it may leave scratch on the screen.

Sweep dust/dirt with fine brush, then wipe it with "dry" soft cloth used for cleaning glasses.

<When cleaning oily surface>

Apply camera lens cleaner on a soft gauze and clean it with gentle force. Then, wipe with dry soft cloth used for cleaning glasses.

Areas excluding the display

Wipe these areas with a soft cloth, after applying water or detergent diluted with water to the soft cloth and firmly wringing out excess water.

- Do not use benzene, thinner, or rubbing alcohol. Doing so may adversely affect the surface, e.g., discoloration. In addition, do not use commercially-available household cleaners and cosmetics, as they may contain components harmful to the surface.
 - Do not directly add or spray water or detergent. If liquid enters the inside of the computer, it may cause it to work improperly or be damaged.

First-time Operation

Read the steps below to help you learn what parts are included, and to gain an understanding of some basic computer-related operations.

1 Confirm the inclusion of all parts

Make sure the parts shown in the figure have been supplied. If any of these items are missing or is not working properly, contact Panasonic Technical Support.

AC adapter1	AC Cord1	Battery Pack1
Model No : CF-AA1527		Model No :CF-VZSU15A
Modem Telephone Cable1	Product Reco	overy CD-ROM
	(Windows 98) (Windows 98) (Windows 98)	ows NT) (Windows 2000)
Operating Instructions (This book) 1 Windows® Book 1		

$oldsymbol{2}$ Write down the Product Key

Write down the number shown on the "Certificate of Authenticity" located on the bottom of the computer in the "Customer's Record" section on page 2 of this manual.

3 Read the LIMITED USE LICENSE AGREEMENT (@page 26)

Before removing the seal covering the power switch, read the LIMITED USE LICENSE AGREEMENT.

4 Insert the battery pack

- 1 Turn your computer over.
- 2 Unlock the latch.
- 3 Open the cover.
- 4 Put a battery pack into the computer.

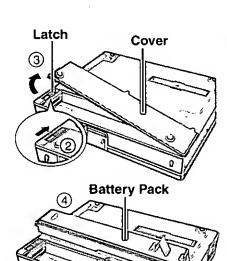
(CAUTION

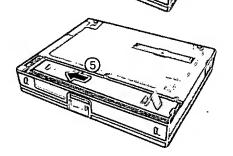
Do not touch the battery connector on the computer. The computer may not operate properly.

(5) Slide the battery pack inward until it is firmly in place.

(CAUTION)

Be sure the battery pack is properly connected to the connector.

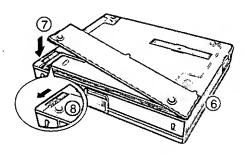




(2)

(1)

First-time Operation



- 6 The cover is closed by inserting the hook at the right end (see illustration) into the groove.
- Close the cover using the arrow as a guide.
- (8) Lock the latch into place.

CAUTION

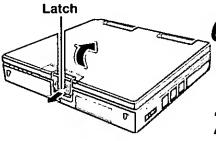
Confirm that the latch lock is correctly in place. Should you decide to carry your computer without the latch lock in place, the cover may open causing the battery pack to fall out.





Be sure the AC adapter is connected until completing Step 10 on page 13. Handling the AC adapter

- Do not twist or pull the AC power cord forcefully. Doing so may damage the connections.
- Use only the specified AC adapter with your computer. Using an AC adapter other than the one supplied might damage the battery and/or the computer.
- When the DC plug is not connected to the computer, disconnect the AC cord from your AC wall outlet.
- Problems such as sudden voltage drops may arise during periods of thunder and lightning. Since this could adversely affect your computer, an uninterruptible power source (UPS) is highly recommended unless the battery pack is installed.



$oldsymbol{6}$ Open the display

- 1) Lift up the latch.
- 2 Lift open the display.

7 Turn your computer on

Slide the power switch and hold it for approximately one second until the power indicator ((())) turns on before releasing it.



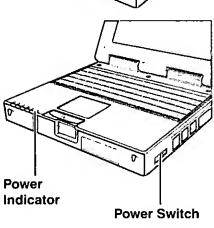
Once the computer is powered off, you must wait at least ten seconds before powering it on again.



The power saving function is factory set, so if there is no input from a key, the touch pad, the touchscreen or an external mouse (when one is connected) for a certain interval of time, the power to the LCD and hard disk may be turned off. The LCD will resume operation when the touch pad, touchscreen or an external mouse (when one is connected) is used or a key is pressed.

The power to the LCD may be turned off while Windows is setting up or even when an application software is being installed. In this case, because it is conceivable that a selection dialog box will be shown, do not press **Space** or **Enter** to attempt to resume from this condition as doing so may trigger a selection, but instead, press a key unrelated to the direct triggering of a selection, like **Ctrl**. In addition, when the computer is left alone, it automatically enters the standby* mode (*Creation** Standby/Hibernation Functions**). The computer will resume by sliding the power switch.

* (Windows 2000): standby or hibernation



(Windows 2000) (Windows NT)

8 Select the Operating System

Windows 2000 and Windows NT are preinstalled on this computer. After one of them is selected with the following procedure, only that Operating System can be used.

- 1 At the screen for the agreement of the selection of the Operating System, select [Y].
- (2) With the number keys, select either Windows 2000 or Windows NT. (The selection of the Operating System is only performed the first time the computer is started up. A change cannot be made after the selection.)
- (3) At the confirmation message, select [Y]. The Operating System preparation will start, during which the computer will restart several times.

CAUTION

Do not touch the keyboard. If you accidentally touch the keyboard and the cancel confirmation menu is displayed, do not cancel.

When the screen indicating the completion of the Operating System preparation is displayed, press any key.

The computer will restart.

9 Setup Windows

Moving the cursor $(\ \ \)$ or clicking buttons can be performed with the touch pad.

(Windows 98)

- ① Select settings for your region and your keyboard layout, then select [Next]. (for U.S.A.: United States 101)
- (2) Enter your name and select [Next].
- 3 Select [Skip] at the [Using Your Modem to Connect].
- 4 Select [Yes] at the [Cancel Dialing], then select [Next]. The License Agreement will be displayed.
- (5) After reading the agreement, select [I accept this agreement] or [I do not accept the agreement], then select [Next].

NOTE

If [I do not accept the agreement] is selected, the Windows setup will be aborted.

- 6 Select [Finish].
- 7 Input the correct date, time and time zone and select [Close]. You can also complete these settings at a later time.

First-time Operation

(Windows 2000)

(CAUTION)

Do not press any key or move the touch pad until [Windows 2000 Professional Setup] is displayed.

- 1 At the [Welcome to the Windows 2000 Setup Wizard], select [Next].
- ② After reading the agreement, select [I accept this agreement] or [I don't accept this agreement], then select [Next].

NOTE

If [I don't accept this agreement] is selected, the Windows setup will be aborted.

- 3 Select settings for your region, then select [Next].
- 4 Enter your name and organization and select [Next].
- (5) Enter your computer name and administrator password and select [Next].

(CONTINUE)

Remember this password! If the password is forgotten, Windows 2000 cannot be operated.

- 6 Input the correct date, time and time zone and select [Next]. You can also complete these settings at a later time.
- (7) At the [Networking Settings], select [Typical settings], then select [Next].
- (8) At the [Workgroup or Computer Domain], select [No, this computer is not on a network, or is on a network without a domain], then select [Next]. The computer will restart.
- (9) At the [Network Identification Wizard], select [Next].
- ① At the [Users of This Computer], select [Users must enter a user name and password to use this computer], then select [Next].
- (11) Select [Finish].
- (12) Enter your administrator password and select [OK].

NOTE

At the [Getting started with Windows 2000], select [Exit] to close.

WindowsNT

1) The License Agreement will be displayed. After reading the agreement, select [I accept this Agreement].

NOTE

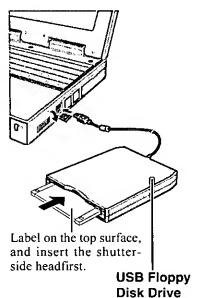
If [I don't accept this Agreement] is selected, the Windows setup will be aborted.

- (2) Select [Next].
- (3) Input your name and organization, then select [Next]. (It is possible to omit the organization item.)
- (4) Input your computer name and select [Next].
- (5) Input an Administrator password and select [Next].

CAUTION

Remember this password! If the password is forgotten, Windows NT cannot be operated.

- 6 Select [Finish]. Windows will restart.
- Following the display, press Ctrl + Alt + Del. Input the password set in step 5 and select [OK], then select [Close] at the [Welcome] display.
 - As the computer starts up, it will be necessary to input the password set in step (8).
- (8) Set the correct settings for all items in [Control Panel]-[Regional Settings] and [Date/Time] etc.



10 Create Backup Disks for Reinstallation

Prepare 2HD floppy disks and make sure they are not in the write-protected state, then select [Start] - [Programs] - [Panasonic] - [Create BACKUP DISK] and follow the onscreen instructions. Place a label identifying the contents on each disk.

● Name of created backup disk

FIRSTAID FD (When the display for creating the UPDATE FD is shown, create the disk by following the on-screen instructions.)

- 1) Power off your computer ("Starting Up/Shutting Down") Do not shut down using the standby or hibernation mode.
- (2) Connect the external floppy disk drive to your computer.

NOTE

The floppy disk drive must be the A drive.

- 3 Turn on your computer.
- (4) Set a floppy disk and make sure it is not in the write-protected state.
- Select [Start] [Programs] [Panasonic] [Create BACKUP DISK].
 Follow the on-screen instructions. Place a label identifying the contents on each disk.

CAUTION

- Store the floppy disks in a safe place. They will enable you to return your computer to close to the condition at the time of purchase should any problems occur.
 - When creating backup disks, do not run any other application program.
- When creating backup disks and the message [Insufficient files to copy] is displayed, select [OK] and then contact Panasonic Technical Support.
- While the floppy disk drive indicator is on, do not remove the floppy disk, power down your computer or use the standby or hibernation function (Reference "Standby/Hibernation Functions").
- Be sure to create the backup disk.
 If a backup disk is not created, it will be impossible to return the computer to its original state. In this case, contact Panasonic Technical Support.

NOTE

Windows 2000

When a new device has been installed or a new Windows Component has been added in [Start] - [Settings] - [Control Panel] - [Add/Remove Programs], [Insert Disk] may appear. Select [OK] and specify [c:\winnt\cdimage] in place of [c:\sysprep\i386] or [D:], then select [OK].

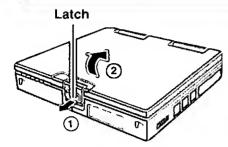
e.g. [c:\winnt\cdimage\i386] in place of [D:\i386]

(Windows NT)

- The library able to be used with the retail version of Windows NT 4.0 for Service Pack6 is in the following folder on the hard disk drive.
 - c:\winnt\i386\drvlib
- The partition showing [Unknown xxxMB] (in [Start] [Programs] [Administrative Tools (Common)] [Disk Administrator]) is an important partition. Therefore, do not delete this partition.

Starting Up/Shutting Down

Starting Up

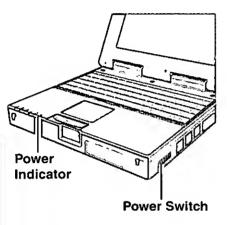


1 Open the display

- 1 Lift up the latch.
- (2) Lift open the display.

$oldsymbol{2}$ Turn your computer on

Slide the power switch as shown and hold it for approximately one second until the power indicator turns on before releasing it.



CAUTION

- After confirming that the power indicator has turned on, avoid the following until Windows has completed loading.
 - Connecting or disconnecting the AC adapter.
 - Touching the power switch.
 - Performing any keyboard, touch pad, touchscreen (or external mouse) operations.
 - · Closing the display.
- Once the computer is powered off, you must wait at least ten seconds before powering it on again.
- When the CPU temperature rises, the computer may not power on to prevent the CPU from overheating. Should this happen, allow the computer to cool down then switch the power on again.

If the computer still does not power on, contact Panasonic Technical Support.

● If security indicator () is displayed,

you must first enter your password. (Reference "Security Measures")

Upon entering your password and pressing Enter. If the correct password is input,

Over three incorrect attempts, or no password is entered for about a minute,

Will Not Start*

(Power off)

* If after three attempts the correct password is not input, or if no password is entered for about a minute, the computer returns to the condition just before the attempt was made to start up the computer.

When an application or file that was previously displayed appears on your screen,

the standby or hibernation function has been set. (Reference "Standby/Hibernation Functions")

3 (Windows NIT)

Select your operating system

Select "Windows NT Workstation Version 4.00" and press **Enter**.

4 (WindowsNT)

Logon

Press (Ctrl) + (Alt) + (Del).

5 (Windows 2000) (Windows NT)

Input your password

Wait for 10 seconds after confirming that the HDD access has been completed, input the user name and password, then select [OK]. Until the correct user name and password are entered, the computer will not operate.

(Windows NT)

If [Cancel] is selected, the computer will return to the initial [Begin Logon] display.

6 Select your application

You are able to start working on your computer.

NOTE

The power saving function is factory set, so if there is no input from a key, the touch pad, touchscreen or an external mouse (when one is connected) for a certain interval of time, the power to the LCD and hard disk may be turned off. The LCD will resume operation when the touch pad, touchscreen or an external mouse (when one is connected) is used or a key is pressed.

The power to the LCD may be turned off while Windows is setting up or even when an application software is being installed. In this case, because it is conceivable that a selection dialog box will be shown, do not press **Space** or **Enter** to attempt to resume from this condition as doing so may trigger a selection, but instead, press a key unrelated to the direct triggering of a selection, like **Ctrl**.

In addition, when the computer is left alone, it automatically enters the standby* mode (*Reference "Standby/Hibernation Functions"). The computer will resume by sliding the power switch.

* (Windows 2000): standby or hibernation

Usage Example



The hand strap is convenient for computing while standing.

Adjust the length of the belt so that the computer does not fall by mistake, and firmly hold the computer when using it.

CAUTION

Do not add a lot of weight to the hand strap.

The hand strap may accidentally come loose from the computer.

Starting Up/Shutting Down

Shutting Down (power off your computer)

This procedure is shutting down without using the standby or hibernation function. (Reference "Standby/Hibernation Functions")

Display the shut down screen

After saving important data and closing each application, select [Shut Down] from the [Start] menu.

NOTE

From the keyboard,

You may choose to press down on (), then select the menu with () or ()

$m{2}$ Confirm shut down

(Windows 98) (Windows 2000)

Select [OK] after selecting [Shut down].

(Windows NT)

Select [Yes] after selecting [Shut down the computer?].

Your computer will power off automatically.

NOTE

(Windows NT)

For the computer to automatically shut down after [Shut down the computer?] is selected, Phoenix APM 2.0 for Windows NT* has to be installed. When 🗍 or 🗒 is displayed on the task tray, this indicates that the program is installed.

Restarting your computer (without shutting down)

(Windows 98) (Windows 2000)

Select [OK] after selecting [Restart].

(Windows NT)

Select [Yes] after selecting [Restart the computer?].

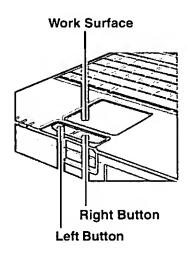
To quickly resume computer operation after shutting down,

The standby or hibernation function is available. (Reference "Standby/Hibernation Functions")

(Windows 98)

• If you have selected "Restart in MS-DOS mode", press Ctrl + Alt + Del to startup Windows from the MS-DOS mode.

Touch Pad (Basic Operation)



Use the touch pad to move the cursor on the display and perform normal computer operations. For instructions on how to operate, refer to Reference "Touch Pad (Advanced)".

(NOTE

The touch pad has been designed to work only when a finger is used. Therefore, do not use any implement on the touch pad.

_Basic_Operation_

Function	Touch Pad Operation
Moving the Cursor	Move the tip of your finger lightly over the surface.
Tapping/Clicking	or tapping clicking
Double-Tapping/ Double-Clicking	double-tapping double-clicking
Dragging	Two quick taps, but on the second tap leaving your finger down (applying pressure) and moving it on the work surface. While holding down the button, moving your finger on the work surface.

-Handling-the-Touch-Pad-

- Do not place any object on the work surface or press down forcefully with sharp-pointed objects (e.g., nails), hard objects that can leave marks (e.g., pencils and ball point pens).
- Do not allow things that could dirty the touch pad, such as oil. The cursor may not work properly in such cases.
- When the touch pad becomes dirty:
 Wipe to remove dirty areas by using a dry soft cloth such as gauze or a soft cloth first applied with detergent diluted with water and then thoroughly wrung.
 Do not use benzene, thinner, or disinfectant-type alcohol.

Reference Manual

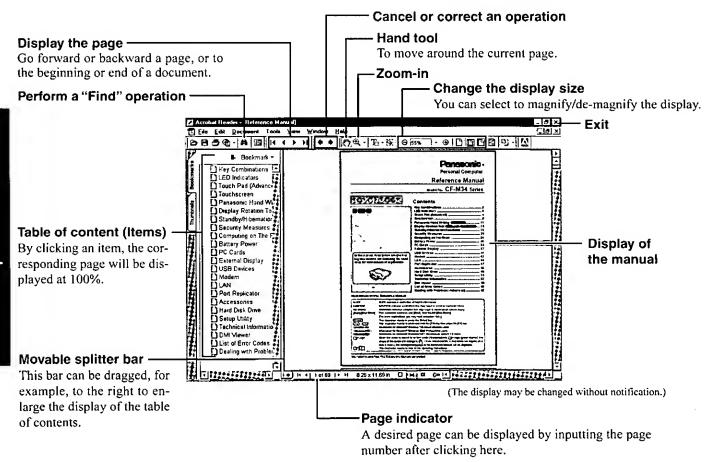
The Reference Manual can be accessed on your computer. When a printer is connected, the Reference Manual can also be printed. This manual explains functions for you to make greater use of the computer, such as how to add peripheral devices, how the Setup Utility works and other useful information.

⊦Run-the-Reference-Manual¬

1 Turn your computer on

2 Select [Reference Manual] in [Start] - [Programs] - [Panasonic] - [On-Line Manuals]

When the Reference Manual is started up for the first time, the License Agreement will be displayed. After reading the agreement, select [Accept] to access the Reference Manual.



NOTE

- Illustrations may be difficult to view depending on the magnification. If this is the case, we recommend that the display be magnified.
- When the taskbar is hidden at the bottom portion of Acrobat Reader, set the maximum display window size.
- If a printer is connected, we recommend printing pages. The illustrations and display samples may not print with a high quality.

List of Error Codes

The following is a list of the messages that BIOS can display. Most of them occur during POST. Some of them display information about a hardware device, e.g., the amount of memory installed. Others may indicate a problem with a device, such as the way it has been configured. Following the list are explanations of the messages and remedies for reported problems.

If your system displays one of except the messages marked below with an asterisk (*), write down the message and contact Panasonic Technical Support. If your system fails after you make changes in the Setup menus, reset the computer, enter Setup and install Setup defaults or correct the error.

0200 Failure Fixed Disk

Fixed disk in not working or not configured properly. Check to see if fixed disk is attached properly. Run Setup. Find out if the fixed-disk type is correctly identified.

0210 Stuck key

Stuck key on keyboard.

0211 Keyboard error

Keyboard not working.

0212 Keyboard Controller Failed

Keyboard controller failed test. May require replacing keyboard controller.

0213 Keyboard locked - Unlock key switch

Unlock the system to proceed.

0230 System RAM Failed at offset: nnnn

System RAM failed at offset nnnn of in the 64k block at which the error was detected.

0231 Shadow RAM Failed at offset: nnnn

Shadow RAM failed at offset nnnn of the 64k block at which the error was detected.

0232 Extended RAM Failed at offset: nnnn

Extended memory not working or not configured properly at offset nnnn.

0250 System battery is dead - Replace and run SETUP

The CMOS clock battery indicator shows the battery is dead. Replace the battery and run Setup to reconfigure the system.

*0251 System CMOS checksum bad - Default configuration used

System CMOS has been corrupted or modified incorrectly, perhaps by an application program that changes data stored in CMOS. The BIOS installed Default SETUP Values. If you do not want these values, enter Setup and enter your own values. If the error persists, check the system battery or contact Panasonic Technical Support.

0260 System timer error

The timer test failed. Requires repair of system board.

0270 Real time clock error

Real-time clock fails BIOS test. May require board repair.

0271 Check date and time settings

Real-time clock is illegal. Run Setup and set the date and clock.

*0280 Previous boot incomplete - Default configuration used

Previous POST did not complete successfully. POST loads default values and offers to run Setup. If the failure was caused by incorrect values and they are not corrected, the next boot will likely fail. On systems with control of wait states, improper Setup settings can also terminate POST and cause this error on the next boot. Run Setup and verify that the wait-state configuration is correct. This error is cleared the next time the system is booted.

0281 Memory Size found by POST differed from CMOS

Memory size found by POST differed from CMOS.

02D0 System cache error - Cache disabled

02D1 System Memory exceeds the CPU's caching limit

Contact Panasonic Technical Support.

List of Error Codes

02F5 DMA Test Failed

Cannot write to extended DMA (Direct Memory Access) registers.

02F6 Software NMI Failed

Cannot generate software NMI (Non-Maskable Interrupt).

02F7 Fail - Safe Timer NMI Failed

Fail-Safe Timer takes too long.

device address Conflict

Address conflict for specified device.

Allocation Error for: device

Run ISA or EISA Configuration Utility to resolve resource conflict for the specified device.

Hardware Configuration changed

The display appears when there is a change in the hardware. This display only occurs one time.

Entering SETUP ...

Starting Setup Utility.

Failing Bits: nnnn

The hex number nnnn is a map of the bits at the RAM address which failed the memory test. Each I (one) in the map indicates a failed bit. See error 230,231 or 232 for offset address of the failure in System, Extended or Shadow memory.

Fixed Disk n

Fixed disk n (0-3) identified.

Invalid System Configuration Data

Problem with NVRAM (CMOS) data.

I/O device IRO conflict

I/O device IRQ conflict error.

PS/2 Mouse Boot Summary Screen:

PS/2 Mouse installed.

nnnn kB Extended RAM Passed

Where nnnn is the amount of RAM in kilobytes successfully tested.

nnnn Cache SRAM Passed

Where nnnn is the amount of system cache in kilobytes successfully tested.

nnnn kB Shadow RAM Passed

Where nnnn is the amount of shadow RAM in kilobytes successfully tested.

nnnn kB System RAM Passed

Where nnnn is the amount of system RAM in kilobytes successfully tested.

Operating System not found

Operating system cannot be located on either drive A: or drive C:. Enter Setup and see if fixed disk and drive A: are properly identified.

Parity Check 1 nnnn

Parity error found in the system bus. BIOS attempts to locate the address and display it on the screen. If it cannot locate the address, it displays ????. Parity is a method for checking errors in binary data. A parity error indicates that some data has been corrupted.

Parity Check 2 nnnn

Parity error found in the I/O bus. BIOS attempts to locate the address and display it on the screen. If it cannot locate the address, it displays ????.

Press <F1> to resume, <F2> to Setup

Displayed after any recoverable error message. Press <F1> to start the boot process or <F2> to enter a Setup and change the settings. Write down and follow the information shown on the screen.

Press <F2> to enter Setup

Optional message displayed during POST. Can be turned off in Setup.

PS/2 Mouse:

PS/2 mouse identified.

System BIOS shadowed

System BIOS copied to shadow RAM.

UMB upper limit segment address: nnnn

Displays the address *nnnn* of the upper limit of Upper Memory Blocks, indicating released segments of the BIOS which can be reclaimed by a virtual memory manager.

Video BIOS shadowed

Video BIOS successfully copied to shadow RAM.

Dealing with Problems (Summary)

When a problem occurs, refer to this page. The "Reference Manual" also contains detailed information. If a problem appears to be related to a software application, read the software related manual. If you still cannot troubleshoot the problem, contact Panasonic Technical Support.

Starting Up

Starting op	
The power indicator or bat-	 Check the cable connection for the AC adaptor.
tery indicator is not lit	• Check to see if a fully charged battery is properly installed.
	 Remove the battery pack and disconnect the AC adaptor, then connect them again.
is displayed	Input your password. If you have forgotten it, contact Panasonic Technical Support.
POST Startup Error(s) is	page 19
displayed	
Windows startup, or an op-	Press F9 in the Setup Utility (Reference "Setup Utility"). This will restore the Setup
eration is extremely slow	Utility's settings to their default values (except the password settings). Then, the Setup Utility must be run once again for you to input the appropriate operating environment settings. (The processing speed depends on the application software used, so this operation may not cause the processing speed to increase.)
The date and time are incor- rect	 You can set the date and time through [Date/Time] in [Start] - [Settings] - [Control Panel]. When the computer is connected to a Local Area Network (LAN), confirm the date and time of the server.
	• If you continue to experience problems, the internal battery maintaining the clock may need to be replaced. Contact Panasonic Technical Support.
	This computer will not correctly recognize the date and time starting from the year 2100 A.D. Windows NT
	• When [APM 2.0 for NT] is not displayed in [Control Panel], this indicates that Phoenix APM 2.0 for Windows NT® is not installed. When the standby or hibernation function is
	used under this condition, the date and time may be incorrectly displayed. Correct the date and time, and then install Phoenix APM 2.0 for Windows NT [®] .
	• When the standby or hibernation function is used frequently, discrepancies may occur in
	the display of the date and time even if APM 2.0 for Windows NT is installed. You can set the date and time through [Date/Time] in [Start] - [Settings] - [Control Panel].
When the previous item is	• Press F9 in the Setup Utility (Reference "Setup Utility"). This will restore the Setup
not the cause	Utility's settings to their default values (except the password settings).
	• Try removing all peripheral devices.
	(Windows)98)
	Run SCANDISK to check the hard disk.
	• At start-up, press Ctrl to operate the computer in the Safe mode.
	(Windows 2000)
	• Click [Local Disk(C:)] in [My Computer] with the right button, select [Properties], then
	select [Tools] - [Check Now].
	• At start-up, press F8 to operate the computer in the Safe mode.
(Windows 98) (Windows 2000)	Use the Windows password as the following.
When resuming from the	Select [Start] - [Settings] - [Control Panel] - [Power Management]* - [Advanced], then add
standby or hibernation	the check mark for [Prompt for password when computer goes off standby].
mode, does not appear	* (Windows 2000): [Power Options]
even if a password has been	(military). [Fower options]
set in the Setup Utility	A &
(Windows 98)	After powering off the computer correct the LICD Computer 12 to 12 to 12
	After powering off the computer, connect the USB floppy disk drive and restart the com-
When starting up in the	puter.
MS-DOS mode, the USB	
floppy disk drive can not be used	
(Windows)2000)	After reinstalling, setup Windows, then set the password again.
The password of the admin-	
istrator was forgotten	

Dealing with Problems (Summary)

Starting Up

(Windows NT)	Try the steps listed below.
NT does not start up	1 Power off the computer, and then power it on again.
	2 When [Press spacebar NOW to] is displayed, press the space key.
	3 When [Hardware Profile/Configuration Recover Menu] is displayed, follow the on-screen
	instructions.

Display

Display	
No display after powering on	 When there is no display to an external display, Check your cable connection to the external display. Confirm your display is powered on. Check the settings for your external display. Try changing the display by pressing Fn + F3. Windows B This combination does not work when the computer is in the Dual-Display Mode. When displaying only through an external display, if the computer is shut down by using the standby or hibernation function, there will be no display on the LCD unless the external display is connected when operations are resumed. In this case, connect the external display or press Fn + F3. Windows 93 This combination does not work when the computer is in the Dual-Display Mode.
The power has not been turned off, but after a certain period of time, there is no display	 Has the computer been set to the power-saving mode? To resume operation of your computer from the condition the power of the display is off (for energy conservation purposes), press any key unrelated to the direct triggering of a selection, like
The cursor does not move in scrolling area of the touch pad	When the Microsoft® IntelliMouse™ Wheel mode or the original mode is set for the touch pad, only scroll operations are possible for the right part or bottom part of the touch pad. In this case, cursor operations are possible by using the work surface excluding the right part or bottom part. When no mode is set, the entire surface of the touch pad can be used for cursor operations.
The cursor cannot be con- trolled	Restart the computer by using the keyboard (e.g.,).
An afterimage appears (e.g., green, red, and blue dots remain on the display) or there are dots not displaying the correct colors.	 If an image is displayed for a prolonged period of time, an afterimage may appear. This is not a malfunction. The afterimage will disappear when a different screen is displayed. High-precision and advanced technologies are necessary in the production of color liquid crystal displays (color LCDs). Therefore, if 0.002% or less of the picture elements either fail to light or remain constantly lit (that is, more than 99.998% of elements are functioning properly), no defect is considered to exist.
The external display no longer displays properly	When an external display not compatible with the power saving mode is used with the computer, the external display may no longer display properly when the computer enters the condition the power of the display is OFF (for energy conservation purposes). In such cases, turn off the power to the external display.
The screen becomes disor- dered	 Changing the number of colors of the display may affect the screen. Restart the computer. (Windows 93) When using Dual-Display mode, use the same display colors for the external display as those used by the LCD.
The display destination of the screen cannot be changed with the Fn + F3 keys	In the following cases, the setting cannot be changed with the Fn + F3 keys. • When either the internal LCD or external display is set to [Secondary] in [Displays] of Display Properties. • Windows 93 When the computer is in the Dual-Display mode.

Display

After the display destination of the screen is switched with Fn + F3, the display destination returns to both the internal LCD and external display upon operation

Under the condition that the [MS-DOS Prompt]* screen is set to "Full Screen", the display destination returns to both the internal LCD and external display if "EXIT" is input and the [MS-DOS Prompt]* screen is closed, or "Full Screen" is canceled (e.g., Alt) + Enter), when the display destination of the screen is switched with Fn + F3.

Press Fn + F3 again.

* (Windows)2000) (Windows)NT): [Command Prompt]

Shutting down

Unable to shut down Win-	If a USB device is connected, try removing it.
dows	· · ·

Battery Indicator

The red indicator lights. Repeated beeping sound while the computer is in use.	The battery level is low. Save your data and power off your computer. After connecting the AC adapter or replacing the battery pack with a fully charged one, turn your computer on.
The red indicator blinks	 The battery pack or recharging function may be defective. Quickly remove the battery pack and disconnect the AC adapter, then connect them again. If the problem persists, contact Panasonic Technical Support.
The orange indicator blinks	Unable to charge because of an improper temperature range. (page 6)

Application Software

Computer hangs	• Press Ctrl + Alt + Del and select [Shut Down].				
	• After cutting the power by sliding the power switch for more than four seconds, slide the				
	power switch to power on and open the application again.				
	If the program no longer works normally, go to [Start] - [Settings] - [Control Panel] -				
	[Add/Remove Programs] to delete the program. Then reinstall the program.				

Reference Manual

The Reference Manual is not displayed	Is Acrobat Reader installed? If Acrobat Reader is not installed, run [c:\util\reader\ar500enu.exe]* in [Start] - [Run] to reinstall the program. When installing the program, do not change the installation destination folder. If the destination folder is changed, the Reference Manual cannot be opened from the [Start] menu.			
	*(Windows 2000): [c:\util\reader\ar500.exe]			

Reinstalling Software

Before Reinstallation

Preparing

- BACKUP DISK(s) created in advance (page 13)
- Product Recovery CD-ROM (included)
- External floppy disk drive (optional CF-VFDU03)
- CD-ROM drive Panasonic KXL-RW10A (PC Card-compatible) or KXL-RW21A (USB) When using a CD-ROM drive other than the Panasonic KXL-RW10A or KXL-RW21A CD-ROM drive: (page 25)

Important

- Save all important data. If reinstallation is carried out, all data existing prior to the installation will be lost. The reinstallation will return the computer to the conditions at time of purchase.
- Before the reinstallation procedure, remove all peripherals (except for the CD-ROM and floppy disk drive).
- Be sure the AC adapter is connected until the reinstallation procedure is completed.
- When using the Panasonic KXL-RW10A CD-ROM drive, set the switch of the PC Card to 16-bit.

Reinstalling

If data on your hard disk is compressed, the data should be uncompressed.

- 1 Turn off the computer.
- 2 Connect the CD-ROM drive to the computer.
- 3 <Only when using the CD-ROM drive Panasonic KXL-RW10A>

Connect the floppy disk drive to the USB port of main unit, then set the FIRSTAID FD in the floppy disk drive.

- 4 Turn the computer on.
- 5 When the message [Press <F2> to enter SETUP] is displayed, press **F2** and then run the Setup Utility. If the password has been set, enter the supervisor pass-
- 6 Write down all of the contents of the Setup Utility and then press (F9).

At the confirmation message, select [Yes] and press (Enter_)

7 <Only when using the CD-ROM drive Panasonic KXL-

Select [Boot] menu, press (F5)/(F6) and (1)/(1) until [CD Drive] is at the top of the [Boot] menu.

(Windows 98)

Set the Product Recovery CD-ROM.

(Windows 2000) (Windows NT)

Set the Product Recovery CD-ROM1.

9 Press (F10).

At the confirmation message, select [Yes] and press (Enter). The computer will reboot, and the License Agreement screen should appear. Select [1. Yes, I agree to the provision above and wish to continue!].

10 (Windows 2000) (Windows NT)

At the screen for the selection of the OS, select either Windows 2000 or Windows NT.

You can reinstall only the initially selected OS.

11 This screen should appear.

(Windows 98)

Select a number

- 1. Restore the whole HDD to factory default
- Restore the drive C to factory default
- 3. End

(Windows 2000)

Select a number

- Restore the whole HDD to factory default
 Restore Windows 2000 to the first partition

WindowsNT

Select a number

- 1. Restore the whole HDD to factory default
- 2. Restore Windows NT4.0 to the first partition
- 12 Make a selection from the menu.

To restore all contents of the hard disk to factory default, including the partition setting(s):

Select [1. Restore the whole HDD to factory default]. (Windows 98)

To restore the hard disk (C drive) to factory default, excluding the partition setting(s):

Select [2. Restore the drive C to factory default].

(Windows 2000) (Windows NT)

To reinstall Windows NT/Windows 2000 to the first partition to factory default:

Select [2. Restore Windows NT4.0 (or Windows 2000) to the first partition].

In such cases, the initial partition size must be 4 GB or more of the hard disk size. Reinstallation cannot be performed with a small partition size.

NOTE

If "The program has detected an error 110 on the partition starting at sector xxxxxxxx on disk1." is displayed, select [Yes].

(To next page)

13 At the confirmation message, press Y.

The computer will reboot, and the operations of reinstallation for the hard disk start automatically. (The operations take about 15 minutes.)

Windows 2000 Windows NT

When "Insert media 2" is displayed, insert Product Recovery CD-ROM 2, or when "Insert media 3" is displayed, insert Product Recovery CD-ROM 3 into the CD drive and immediately select [OK].

(In the case of Windows NT, only Product Recovery CD-ROMs 1 and 2 can be used.)

NOTE

If [OK] is not immediately selected:

The message "The media does not contain the correct file" may appear. In such cases, the message "Insert media 2..." is displayed again when [OK] is selected. Confirm that Product Recovery CD-ROM 2 has been inserted by opening the tray of the CD drive, then close the tray and immediately select [OK].

- **14** After the reinstallation procedure completes, press **Enter**. The computer will be shut down.
- 15 <Only when using the CD-ROM drive Panasonic KXL-RW10A>

Remove the FIRSTAID FD.

- 16 Remove the CD-ROM drive, and then turn the computer on.
- 17 When the message [Press <F2> to enter SETUP] is displayed, press F2 and then run the Setup Utility.
 If the password has been set, enter the Supervisor Password.
- 18 Press (F9).

At the confirmation message, select [Yes] and press **Enter**. (The Setup Utility settings will return to their default values. Even the security settings with the exception of the password(s) will return to their default values.) Change the settings where necessary.

19 Press (F10).

At the confirmation message, select [Yes] and press **Enter**).

20 Perform the setup procedure for Windows by following the instructions on the screen. page 11

NOTE

When an UPDATE FD is to be created, follow the steps in the readme.txt on the disk. (page 13)

<When using a PC Card-compatible CD-ROM drive other than the Panasonic KXL-RW10A>

Copy the necessary drivers, from the floppy disk included with your CD-ROM drive, to the FIRSTAID FD with the method below. It will be necessary to edit the CONFIG.SYS file and AUTOEXEC.BAT file on the FIRSTAID FD. When editing the AUTOEXEC.BAT file. Some CD-ROM drives require card managers (card and socket service). See the manual included with your CD-ROM drive for further details.

- 1 Start Windows and insert the FIRSTAID FD.
- Select [Start]-[Programs]-[Accessories]-[NotePad] and open [a:\config.sys].
- ③ Rewrite the following line and save.
 Delete the following four lines.
 ;KXL-RW10A DRIVER
 DEVICE=A:\TOOLS\KMASMGRA.SYS
 DEVICE=A:\TOOLS\KMASASPA.SYS
 DEVICE=A:\TOOLS\KMASCDA.SYS /D:MSCD000

Add the driver of your CD-ROM drive.

Device=A:\DRIVER1.SYS /D:MSCD000

- Rewrite this driver for the driver of your CD-ROM drive. The driver for the PC Card will also be necessary. Refer to the operation manual that accompanies the CD-ROM drive.
- (4) Copy the CD-ROM driver file (i.e., the driver file rewritten in step (3)) of the CD-ROM drive below [a:\] of the FIRSTAID FD.
- (5) Set the floppy disk to the write-protect state.

After this, follow the reinstalling procedure of <when using the CD-ROM drive Panasonic KXL-RW10A>. (page 24)

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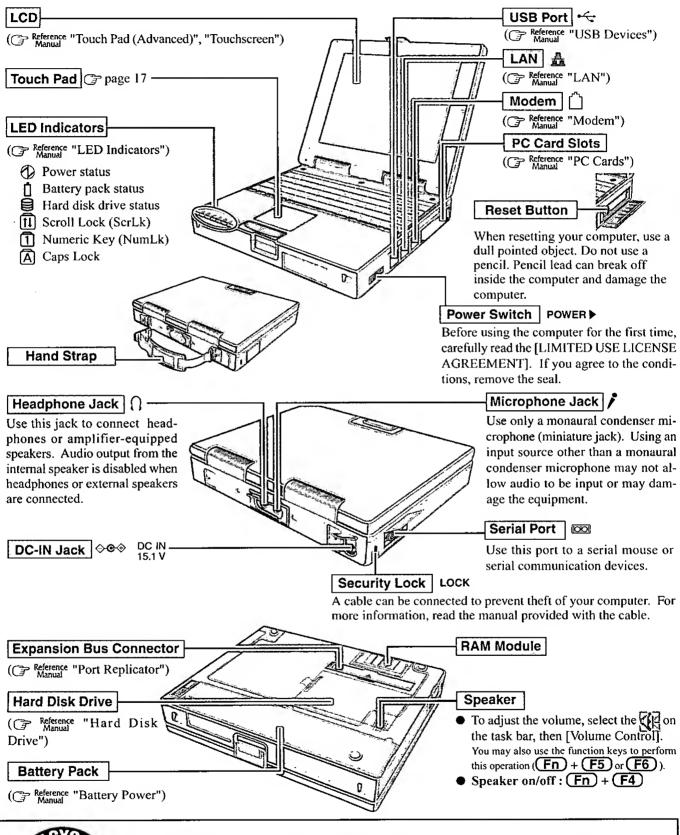
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Names and Functions of Parts





A lithium ion battery that is recyclable powers the product you have purchased. Please call 1-800-8-BATTERY for information on how to recycle this battery.

L'appareil que vous vous êtes procuré est alimenté par une batterie au lithium-ion. Pour des renseignements sur le recyclage de la batterie, veuillez composer le 1-800-8-BATTERY.

Specifications

Model No.		CF-M34NPFZPM CF-M34NPFZEM					
СРИ		Intel® Mobile Pentium® III Processor 700 MHz					
L1 Cache Memory		32 KB					
L2 (Secon	d) Cache Memory	512 KB					
Memory		256 MB					
Video Men	nory	4 MB					
LCD	Туре	8.4 " (TFT)					
	Displayed Colors*1	256/65536/262144 colors (640 x 480 dots/800 x 600 dots)					
External Display		256/65536/16M colors (640 x 480 dots/800 x 600 dots/1024x768 dots) *2					
Hard Disk	Drive	20 GB*3					
Keyboard		Windows keyboard (87 keys)					
Pointing Device		Touch Pad					
		Touchscreen (Anti-Reflection, Finger touch capable)					
PC Card Slot		Type I or Type II					
		Allowable current 3.3 V: 400 mA, 5 V: 400 mA					
	Serial Port	Dsub 9-pin Male					
	Microphone Jack*4	Miniature jack,	3.5 DIA				
Interface	Headphone Jack	Miniature jack, 3.5 DIA					
	USB Port	4-pin					
	Modem	RJ-11 Data:56 kbps (V.90 & K56flex*5) FAX:14.4 kbps					
	LAN	RJ 45 IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX					
Speaker	d	Monaural Speaker					
Sound		16 bits, 44.1 kHz AC '97 2.1 Compatible					
	Battery Pack	Li-ion 11.1 V, 4.0 Ah					
		Operating Time Approx. 3.0 - 5.0 h*6					
Battery		Charging Time	Power On Approx. 4.0 h*6				
			.0 h*6				
	Clock Battery	Coin type lithius	ype lithium battery 3.0 V				
AC Adapte	er* ⁷	Input 100 V - 240 V AC, 50 Hz / 60 Hz Output 15.1 V DC, 2.6 A					
Power Cor	nsumption*8	Approx. 18 W*9 / Approx. 41 W (maximum when recharging in the ON state)					
		Microsoft® Windows® 2000 professional with Service Pack 2*10 or Microsoft® Windows® 98 Second Edition (FAT32 File System)					
	Utility Programs	Setup Utility, DMI Viewer, Display Rot tion Tool*11		lay Rota-	Setup Utility, DMI Viewer, Panasonic Hand		
					Writing, Display Rotation Tool		
Environme	ent	In use	Temperature	5 °C to 3	5 °C {41 °F to 95 °F}		
			Humidity	30% to 8	30% RH (No condensation)		
		Not in use	Temperature	-20 °C to	60 °C {-4 °F to 140 °F}		
			Humidity		0% RH (No condensation)		
Physical Dimensions*12 (W X H X D)		229 mm X 43 mm X 188 mm {9.0 " X 1.7 " X 7.4 "}					
Weight*12		Approx. 1.8 kg			•		
1 A 16M acta	or display on the I CD is an		· · ·	-			

A 16M color display on the LCD is achieved by using the dithering function.
 Maximum resolution depends on the specifications of the external display.

 $1GB = 10^9$ bytes

Use only a monaural condenser microphone (miniature jack).
 The settings for the K56flex modem need to be changed according to the AT command.
 Varies depending on the usage conditions. (Windows 93) Approx. 3.5 - 6.8 h.
 The AC adapter is compatible with power sources up to 240 V AC.
 This computer is supplied with a 125 V AC compatible AC cord.

 Approx. 0.6 W when the battery pack is fully charged (or not being charged) and the computer is OFF.
 Pated power consumption.

 ^{**}Hated power consumption.
 The set-up utilities for both Windows 2000 and Windows NT* 4.0 operating systems are preinstalled on this system.
 *When the system is initially started, you have the option of selecting operating system of your choice.
 *Any operating system that was not selected initially will be deleted automatically.
 ***Only for Window 2000.
 ***The discontinuous and weight do not include the head street.

^{*12} The dimensions and weight do not include the hand strap.

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Panasonic Computer Solution Company

50 Meadowlands Parkway, Panazip 2F-5, Secaucus, NJ 07094

Panasonic Canada Inc.

5770 Ambler Drive Mississauga, Ontario L4W 2T3